Title (en)

Resizing a digital document image via background content removal

Title (de)

Anpassung der Größe eines digitalen Dokumentbildes mittels Entfernung des Hintergrundinhalts

Title (fr)

Redimensionnement d'une image de document numérique via une suppression de contenu d'arrière-plan

Publication

EP 2219153 A3 20110223 (EN)

Application

EP 10152480 A 20100203

Priority

US 36979009 A 20090212

Abstract (en)

[origin: EP2219153A2] What is disclosed is a system and method for performing a background deletion that exploits both local and global context to remove background and other white space between objects with the aim of retaining structural relationships between objects in the document. A document image is received (102) and seams are carved (104) through the image. Seams composed of uniform background pixels are identified (106). Adjacent seams containing background pixels are collected (108) into groups of seams. The background seam groups are classified according to their widths. A target number of seams to be removed for each background seam group is then determined (110) based on the classification. Seam groups which are wider will have at least the same or a greater target number of seams to be deleted therefrom than will seam groups of narrower widths. The document image is then resized (112) by deleting seams from the seam groups based on the assigned target number.

IPC 8 full level

G06T 3/00 (2006.01)

CPC (source: EP US)

G06T 3/04 (2024.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2219153 A2 20100818; **EP 2219153 A3 20110223**; **EP 2219153 B1 20120919**; JP 2010187376 A 20100826; JP 5274495 B2 20130828; US 2010201711 A1 20100812; US 8274533 B2 20120925

DOCDB simple family (application)

EP 10152480 A 20100203; JP 2010026872 A 20100209; US 36979009 A 20090212